rst & Part Bill

Original/Duplicate/Triplicate

t Cost: 1350.00Lakhs | YNK-DBR No..... Date..... | CONTRACT CERTIFICATE (FOR OTHER WORKS)

Head of Account:
Job Number: 002-22000083

ivision:-Yelahanka

ill Received No.....Dated.....Cash Book Voucher

lo.....Dated.....

cheduled Docket No

Subdivision:-Yelahanka
SBR No: 60 | 2021-22
Date: 31 | 3 | 2022

Name of work:- "Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02) (Number of Works-05)"

Name of Contractor and full Address:Sri.K.VENKATARAJU No.23, Near Akal Public School, Nagashettyhalli, RMV 2nd stage, Bengaluru-94

Reference to Work order No. BBMP/EE/YNK.D/EPMT-08/W.O/111/2021-22 Dated: 15/02/2022

Certified that the non-measurement were taken by me on 31/03/2022 and recorded as Pages 493039 to 493045/2 of measurement Book No 4931 and that the work is satisfactorily executed.

K.Venkat
Contractor

Officer-in-charge of work

Certified that the measurement were checked by me on 31/03/2022 and found correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to the site of the work and the contractor has not previously received any advance on this security These Materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Sub-Division Officer
Yelahanka Sub Division
(BBMP Yak. Zn)
Yelahanka, Bangalore

If Memorandum of Payment

1st and part bill

1	Total value of work done or supplies made as per account with in	Gross Amt =Rs 96471390=00
2	Deduct amount to be held in reserve being.....percent Rs.....	FSD =Rs —
3	" Balance	CGST = Rs 861352=00
4	Deduct Payments	SGST = Rs 861352=00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....	IT = Rs 964714=00
	b)Amount adjusted towards cash advance recovery of Payments cost of store or other materials supplied. Now made recovery of amount creditable to this/other work amount paid on the bill Cheque/Cash	LC = Rs 964714=00
5	Balance being unpaid value of work done held in reverse	CBF = Rs 96471=00
6	Deduct cash advance made on the Office Cash Book Voucher No..... Dated.....less adjustments	Royalty = Rs 1353613=00
7	Net amount due to or from contractor	T.D = Rs 5102216=00
	Unadjusted items	9136974=00
8	Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	

Contractor's Signature
K.Venkat

Received Rs.....(in words)

.....

adjustment of Payment as per memorandum.

(for use in the officer)

Witness:

1.

2.

Dated..... Signature of Contractor K.Venkat

Stamp

Audited & Admitted for Rs. 96471390=00 by cash and by
9136974=00 by Cheque
and Rs. 5102216=00 by adjustement

Accts. Supdt
Yelahanka Division
BBMP

Exe. Engineer
Yelahanka Division
BBMP
Executive Engineer

Paid by me by Cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of officer making payment

Sl. No	Description of works	Unit	Previous Me	
			Qty	
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)		-	
2	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.11Skm lead = 57+2.0x1.28x =77.48	Cum	-	
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KHS 4.1.4.2 (P.No.13, I.No.4.3)	Cum	-	
4	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machine mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 371)	Cum	-	
5	KSRB M2200.6 Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2	Tonne	-	
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,compplete. (Data Rate)	Sqm	-	
7	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in charge. (Data Rate)	Sqm	-	
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KHS 4.1.4.2 (P.No-13,I No 4.6)	Cum	-	
9	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No-27, I No-5.30 of PW, P&IWTD SR 2018-19)	No's	-	
10	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 180. Item no.24.1 of KPWD S.R Bangalore Circle 2018-2019)	Sqm	-	
11	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead = (I No-19.14,P No-143)	Cum	-	
12	KSRRB 800-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges. HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)	Sqm	-	
13	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)	Sqm	-	
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite / trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)	Cum	-	
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepated surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum	-	
16	KSRRB M500.6 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	Sqm	-	
17	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)	Cum	-	
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. (P.No 161,I No-21.7)	Sqm	-	
19	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)	Cum	-	

Unit	Previous Measurement		Present Measurement			Total Up-to-date	
	Qty	Amount	Qty	Rate (Rs)	Amount	Qty	Amount
	-	-	0.00	112.41	0.00	0.00	0.00
Cum	-	-	5256.22	217.43	1142859.00	5256.22	1142859.00
Cum	-	-	872.39	5675.99	4951657.00	872.39	4951657.00
Cum	-	-	1707.66	7497.22	12802728.00	1707.66	12802728.00
Tonne	-	-	101.74	80948.07	8236047.00	101.74	8236047.00
Sqm	-	-	4404.56	1941.22	8550224.00	4404.56	8550224.00
Sqm	-	-	404.28	4530.86	1831736.00	404.28	1831736.00
Cum	-	-	0.00	6089.86	0.00	0.00	0.00
No's	-	-	9706.00	436.80	4239580.00	9706.00	4239580.00
Sqm	-	-	1528.70	85.65	130932.00	1528.70	130932.00
Cum	-	-	9953.42	64.58	642791.00	9953.42	642791.00
Sqm	-	-	1069.50	41.75	44651.00	1069.50	44651.00
Sqm	-	-	28534.85	6.42	183193.00	28534.85	183193.00
Cum	-	-	4286.17	2014.87	8636072.00	4286.17	8636072.00
Cum	-	-	5706.97	2021.29	11535442.00	5706.97	11535442.00
Sqm	-	-	28928.69	34.26	991097.00	28928.69	991097.00
Cum	-	-	1446.43	7365.73	10654046.00	1446.43	10654046.00
Sqm	-	-	28928.69	12.85	371733.00	28928.69	371733.00
Cum	-	-	1157.15	8534.82	9876047.00	1157.15	9876047.00

Sl. No	Description of works	Unit
20	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous / Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)	Sqm
21	KSRRB M800 Road markers: Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nils and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)	Nos
22	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)	Cum
23	KSRRB M600-1 Providing and Constructing dry lean cement concrete mix CC1:5:10 Base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum over a prepared sub-base coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and Coarse agrregate 0.86cum, Fine aggregate 0.58cum using Concrete batch Mix Plant at 75 Cum/hr capacity with fixed form Paver MORTH Specification No. 601, Pg No.174,Item No.23.1.2	Cum
24	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS 383-2016,with superplastiriser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.174,Item No.23.1.2	Cum

Certificate:-

1. The above work has been completed satisfactorily.
2. The debris has been removed and disposed from the work spot.
3. No departmental issues are made to the contractor.

Assst. Engineer
Ward no.002
Chowdeshwari ward

Unit	Previous Measurement		Present Measurement			Total Up-to-date	
	Qty	Amount	Qty	Rate (Rs)	Amount	Qty	Amount
Sqm	-	-	394.61	459.29	181238.00	394.61	181238.00
No's	-	-	0.00	360.79	0.00	0.00	0.00
Cum	-	-	135.13	1040.72	140634.00	135.13	140634.00
Cum	-	-	101.35	4101.90	415723.00	101.35	415723.00
Cum	-	-	101.35	5690.64	576740.00	101.35	576740.00
					Sub-Total Amount		86135170.00
					Appilcable GST Charges 12%		10336220.00
					Total Amount Rs.		96471390.00

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP)
Yelahanka, Bangalore